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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/055,210	01/23/2002	Clark TC. Nguyen	UOM 0205 PUSP 5046		
22045	7590 10/07/2003		EXAMINER		
BROOKS K	USHMAN P.C. CENTER	CHAPMAN JR, JOHN E			
	ECOND FLOOR	ART UNIT	PAPER NUMBER		
SOUTHFIEL	D, MI 48075	2856	9		
			DATE MAILED: 10/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

					W				
		Application No.		Applicant(s)	-				
ا ف		10/055,210		NGUYEN ET AL.					
Office Action Summary		Examin r		Art Unit					
		John E Chapmar		2856					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe by within the statutory min will apply and will expire to, cause the application to	ever, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from b become ABANDONEI	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) filed on <u>07</u>	<u> August 2003</u> .							
2a)⊠	This action is FINAL . 2b)☐ Th	nis action is non-fi	nal.						
3)□ Disposit	Since this application is in condition for allow closed in accordance with the practice under ion of Claims				e merits is				
·	Claim(s) <u>1-3,5-14,16-22 and 27-30</u> is/are pen	ding in the applica	ation						
1/12.3	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	Claim(s) is/are allowed.	com consider							
	Claim(s) <u>1-3,5-14,16-22 and 27-30</u> is/are reject	eted.							
7)	Claim(s) is/are objected to.								
8)	Claim(s) are subject to restriction and/o	r election require	ment.						
/—	ion Papers	0.00							
9)[The specification is objected to by the Examine	er.							
10)	The drawing(s) filed on is/are: a)□ acce	pted or b) object	ed to by the Exar	niner.					
	Applicant may not request that any objection to th	e drawing(s) be hel	d in abeyance. Se	ee 37 CFR 1.85(a).	\				
11)	The proposed drawing correction filed on	_ is: a)□ apprové	d b)□ disappro	ved by the Examine	er.				
	If approved, corrected drawings are required in re	ply to this Office ac	ion.						
12)	The oath or declaration is objected to by the Ex	aminer.							
Priority (under 35 U.S.C. §§ 119 and 120								
13)[Acknowledgment is made of a claim for foreign	n priority under 35	U.S.C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority document	s have been rece	ived.						
	2. Certified copies of the priority documents have been received in Application No								
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
	Acknowledgment is made of a claim for domesti				application).				
_) The translation of the foreign language pro Acknowledgment is made of a claim for domest	* *							
Attachmen		,							
2) 🔲 Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4)	•	(PTO-413) Paper No(: Patent Application (PTC	·				

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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 2. Claim 1 is objected to because of the following informalities: In line 7, "dive" should be changed to --drive--. Appropriate correction is required.
- 3. Claims 1-3, 5-14, 16-22 and 27-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what elements are being claimed. Claim 1 recites a first resonator, a second resonator, and a means for coupling the resonators so that the apparatus has a filter response in a sense mode with a substantially constant amplitude region for a passband of frequencies. The specification, however, describes four resonators, namely two drive resonators 54 and two platform resonators 64. The platform resonators 64 are coupled by a mechanical spring or coupling beam 58 (page 11, lines 17-18) in order to achieve the desired filter spectrum (page 12, lines 19-20). Thus, it appears that the first and second resonators as claimed correspond to the platform resonators 64. However, claim 1 also recites that first resonator "vibrates along a second axis at a reference vibration and generates a Coriolis force which causes the second resonator to vibrate along a third axis at an induced vibration." One platform resonator 64 is not driven along a second axis so as to cause the second platform resonator 64 to vibrate along a third

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axis at an induced vibration. Rather, a first drive resonator 54 is driven along a second axis (x) so as to cause a first platform resonator 64 to vibrate along a third axis (y) at an induced vibration (page 12, line 22 to page 13, line 6). Accordingly, it is not clear which resonators are being claimed. It would appear that three resonators should be claimed, two "platform" resonators coupled so that the apparatus has a filter response in a sense mode with a substantially constant amplitude region for a passband of frequencies, and one "drive" resonator which vibrates along the second axis at a reference vibration and generates a Coriolis force which causes one of the platform resonators to vibrate along the third axis.

Likewise for claims 2, 3, 5-14, 16-22 and 27-30.

Claims 8 and 19 merely set forth a desired result without providing any step for achieving the desired result. Furthermore, whether Q-multiplication is attained appears to a relative term, and it is not clear that the invention attains Q-multiplication. Note page 9, lines 19-25.

Regarding claims 11 and 22, the term "wide" is a relative term which renders the claim indefinite. The term "wide" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

4. Claims 1-3, 5-14, 16-22 and 27-30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. In particular, claims 1 and 12 would be allowable if amended to make clear that three resonators are being recited.

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5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of

time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Mr. Chapman whose telephone number is (703) 305-4920.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 308-0956.

JOHN E. CHAPMAN PRIMARY EXAMINER